

## Abstract

Clean Copy

A device for processing a signal ( $i$ ) derived from a particular detector, the device including an integrator for measuring the total charge transported by an input signal ( $i_2$ ) feeding the integrator for a predetermined time interval. The device further includes a plurality of units for receiving detector signal ( $i$ ) derived from the particle detector, reducing the background noise present in the detector signal ( $i$ ), and producing the input signal ( $i_2$ ). The invention is applicable to various devices and appliances for measuring flow of particles such as photons.